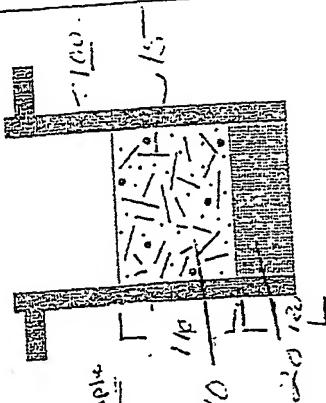


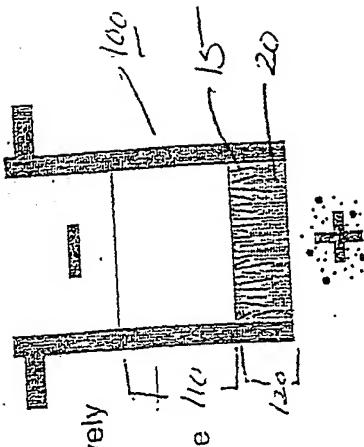
## Step 1

- Load DNA analyte sample into microwell plate



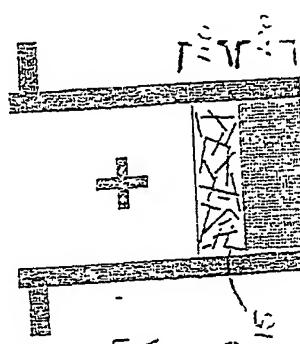
## Step 2

- Apply electric field to electrophorese all negatively charged molecules
- The DNA analyte will be captured



## Step 3

- Replace buffer
- Reduce sample volume in well if concentration of DNA analyte is also desired
- Apply current to denature hybrid and release DNA analyte from capture oligo
- Apply reversed electric field to electrophoretically elute DNA analyte into the sample volume in the well



## Step 4

- Microtiter plate bearing purified and (optionally) concentrated DNA analyte samples ready for further analysis

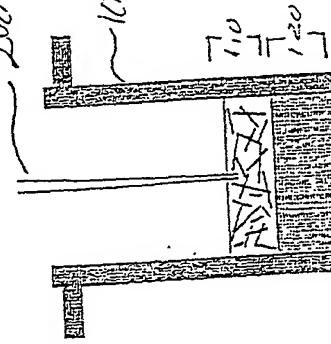
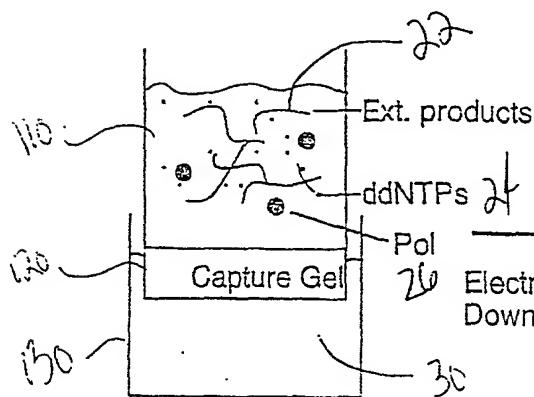


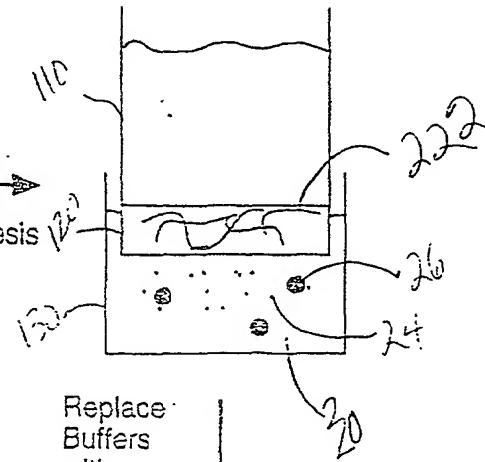
Fig. 1

## Sample Prep for Sequencing

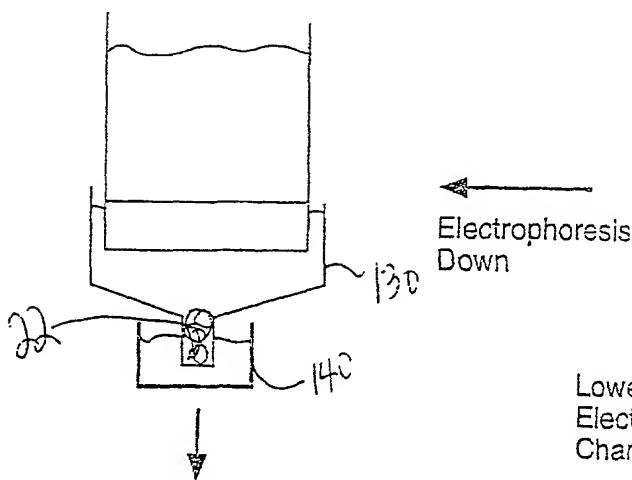
Step 1



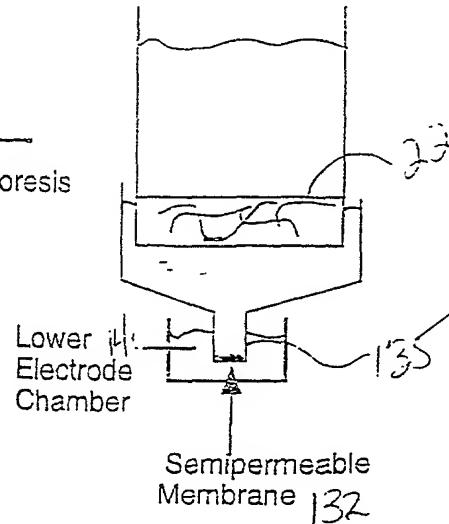
Step 2



Step 4



Step 3



Remove excess buffer, load  
into Sequencer  
for DNA sequencing

Fig. 2

## Multiplexing: Use of Hybrigel to Purify Products of Multiple Reactions

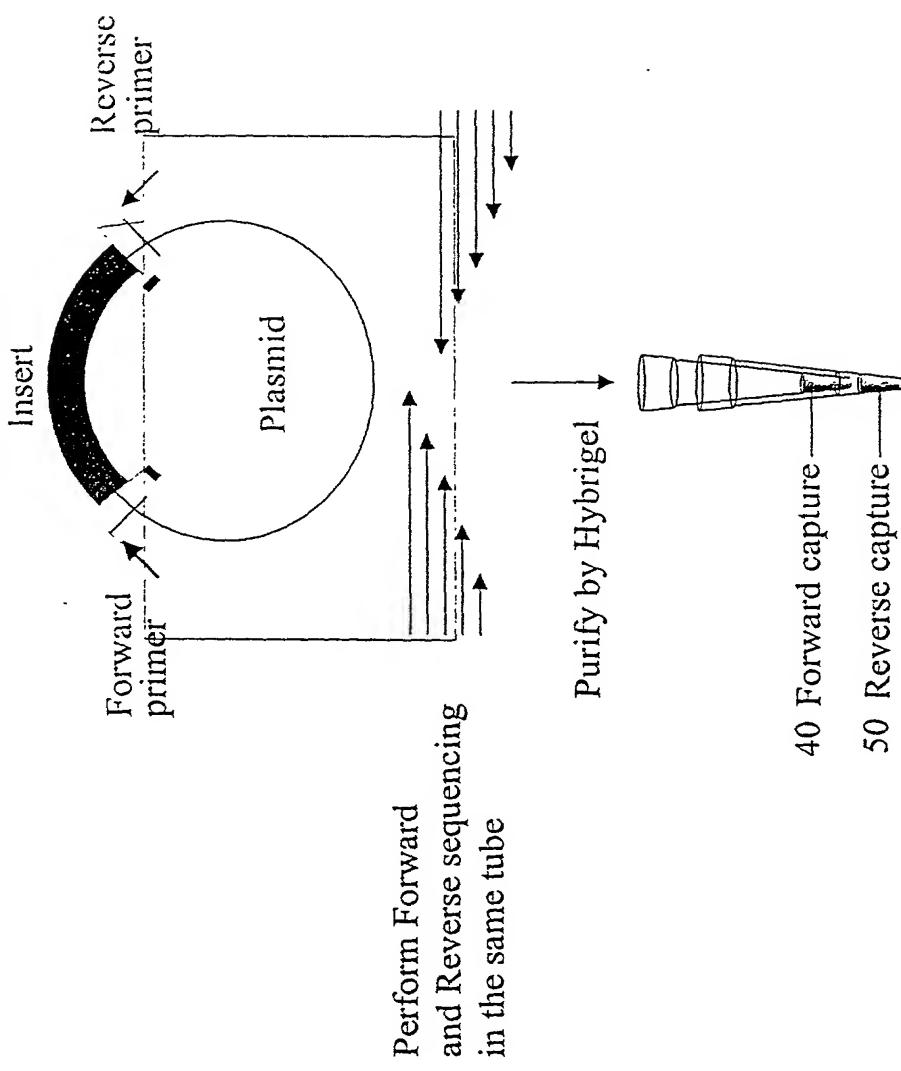


Fig. 3A

Capture Probes and Uses Therefor  
Inventor(s): Weir et al.  
Serial No.: Not yet assigned  
Atty Docket No.: EXT-070C1  
Atty/Agent: Patrick R.H. Waller  
Express Mail Mailing Label No. EV 012823698 US

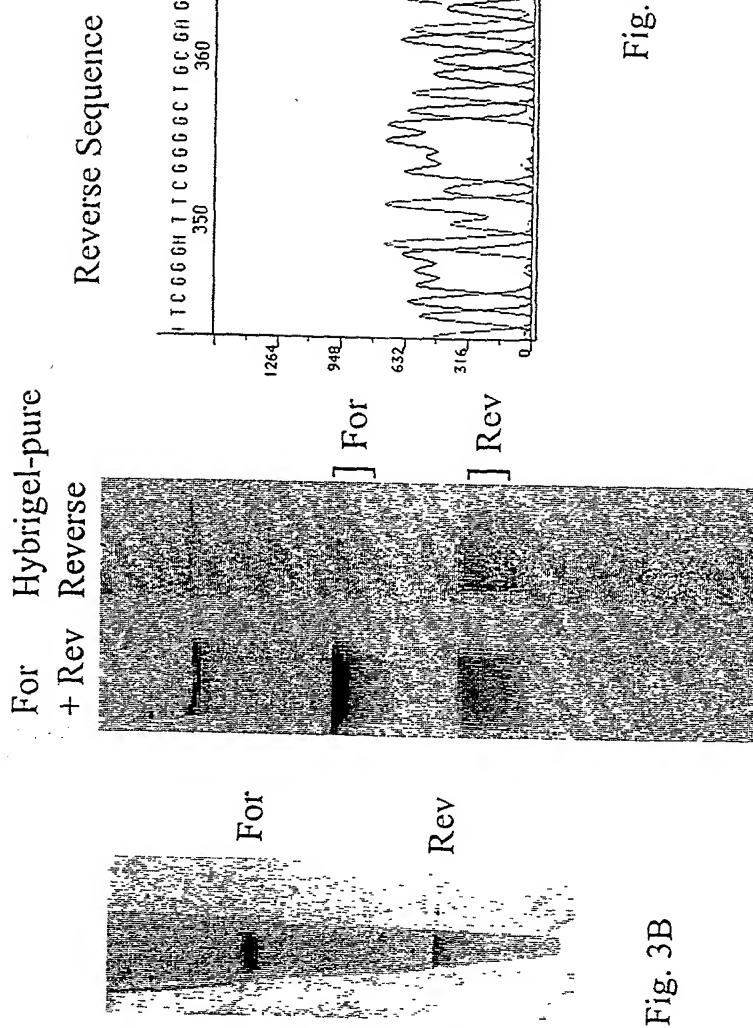


Fig. 3B

Fig. 3C

Fig. 3D

Capture Probes and Uses Therefor  
Inventor(s): Weir et al.  
Serial No.: Not yet assigned  
Atty Docket No.: EXT-070C1  
Atty/Agent: Patrick R.H. Waller  
Express Mail Mailing Label No. EV 012823698 US

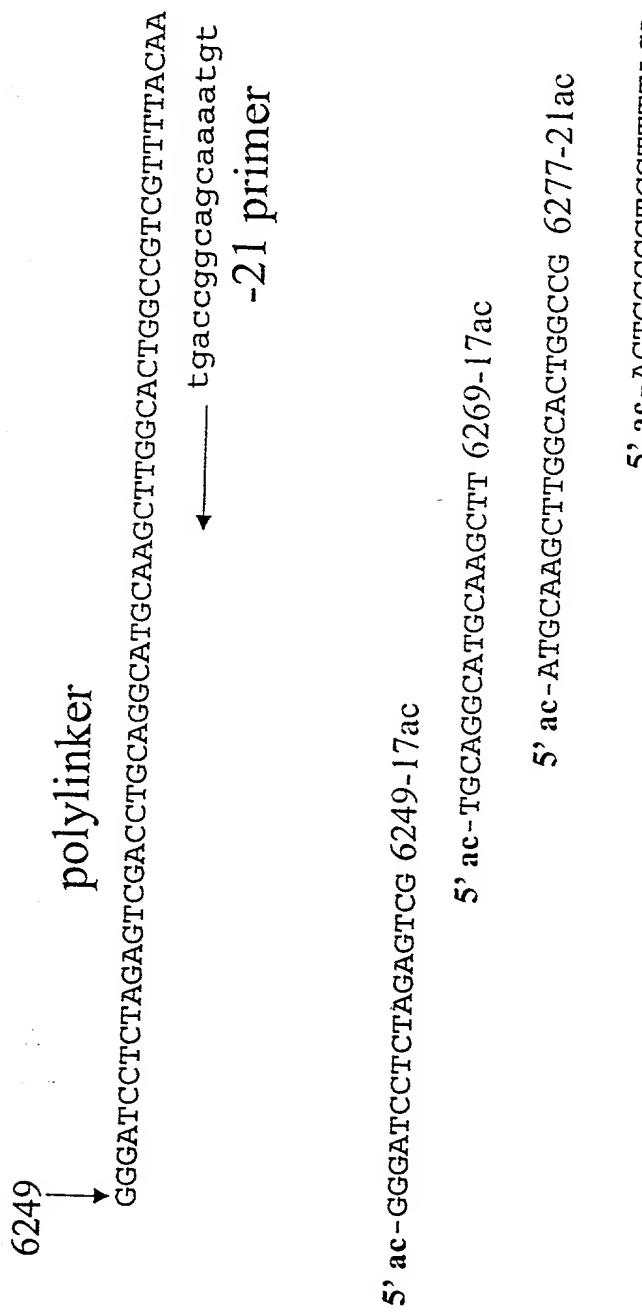


Fig. 3E

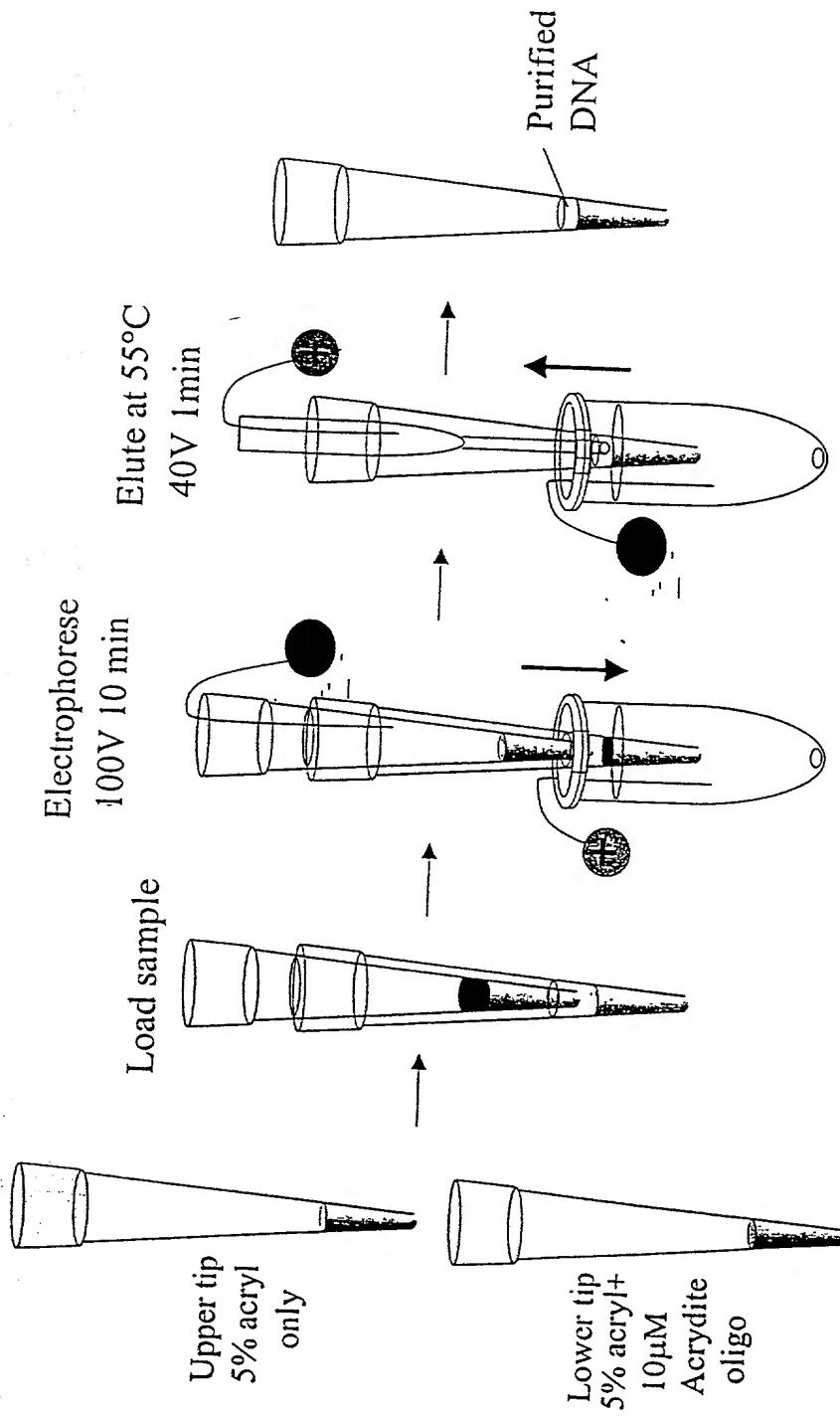


Fig. 4A

Capture Probes and Uses Therefor  
Inventor(s): Weir et al.  
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Atty Docket No.: EXT-070C1  
Atty/Agent: Patrick R.H. Waller  
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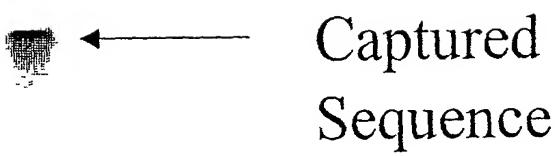


Fig. 4B

Capture Probes and Uses Therefor  
Inventor(s): Weir et al.  
Serial No.: Not yet assigned  
Atty Docket No.: EXT-070C1  
Atty/Agent: Patrick R.H. Waller  
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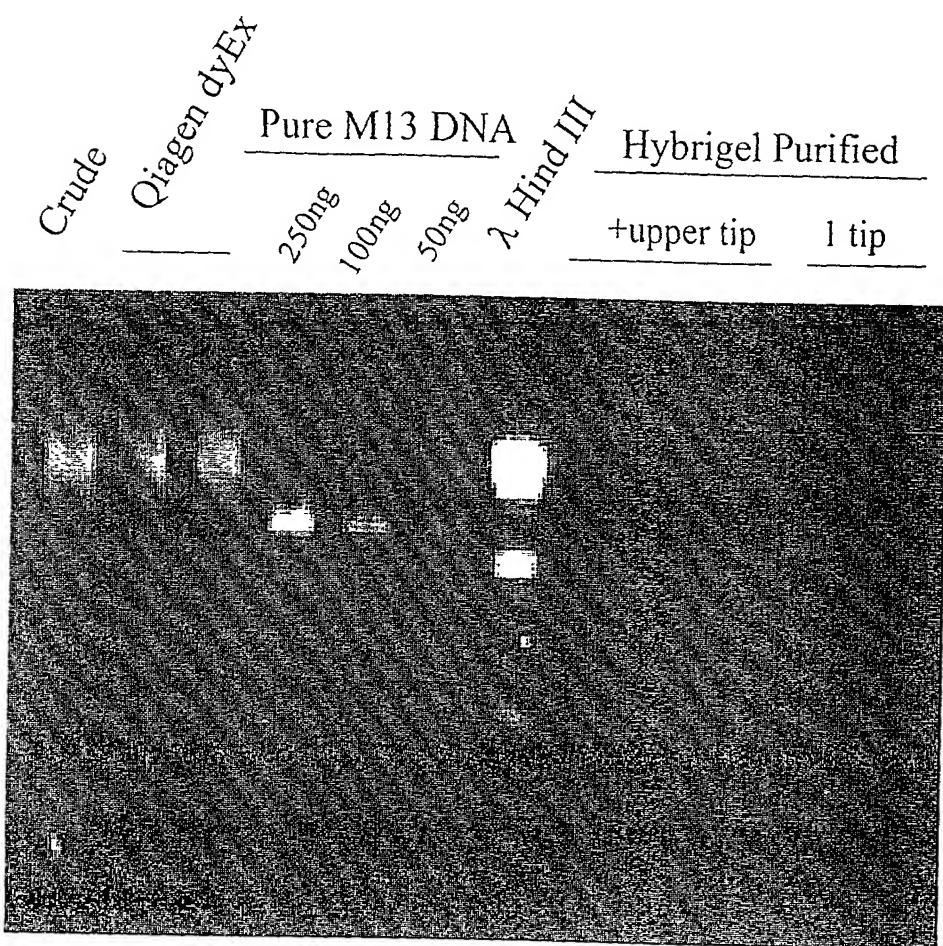


Fig. 5

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Atty/Agent: Patrick R.H. Waller  
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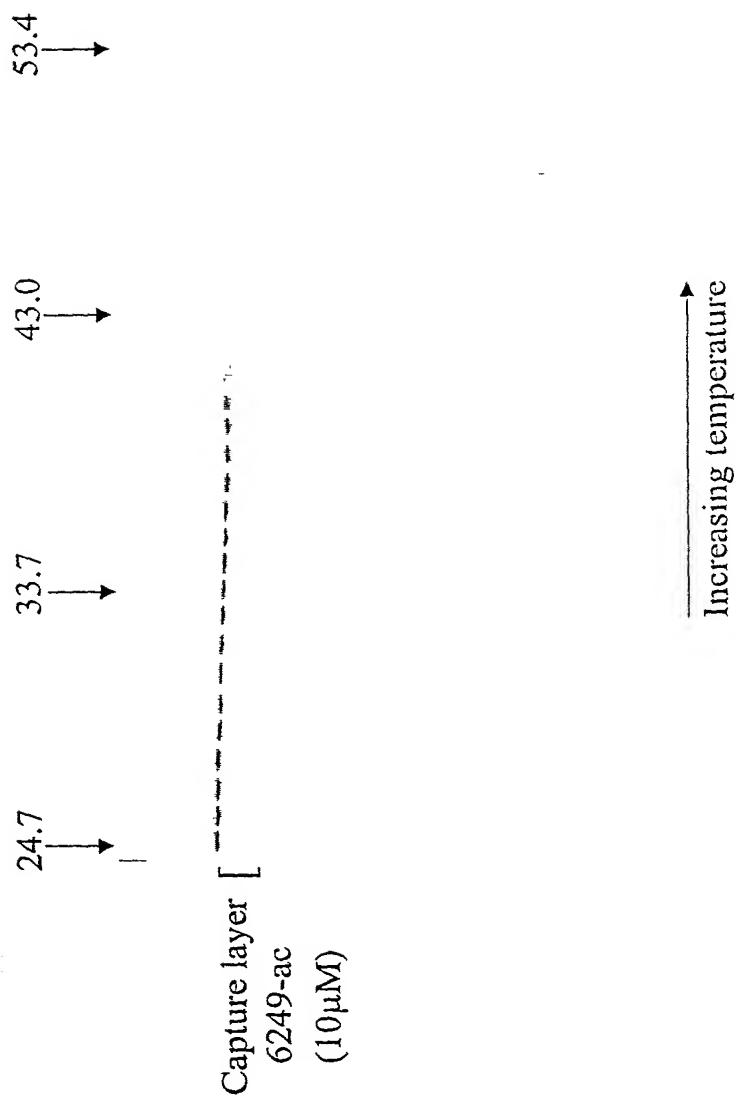


Fig. 6

Capture Probes and Uses Therefor  
Inventor(s): Weir et al.  
Serial No.: Not yet assigned  
Atty Docket No.: EXT-070C1  
Atty/Agent: Patrick R.H. Waller  
Express Mail Mailing Label No. EV 012823698 US

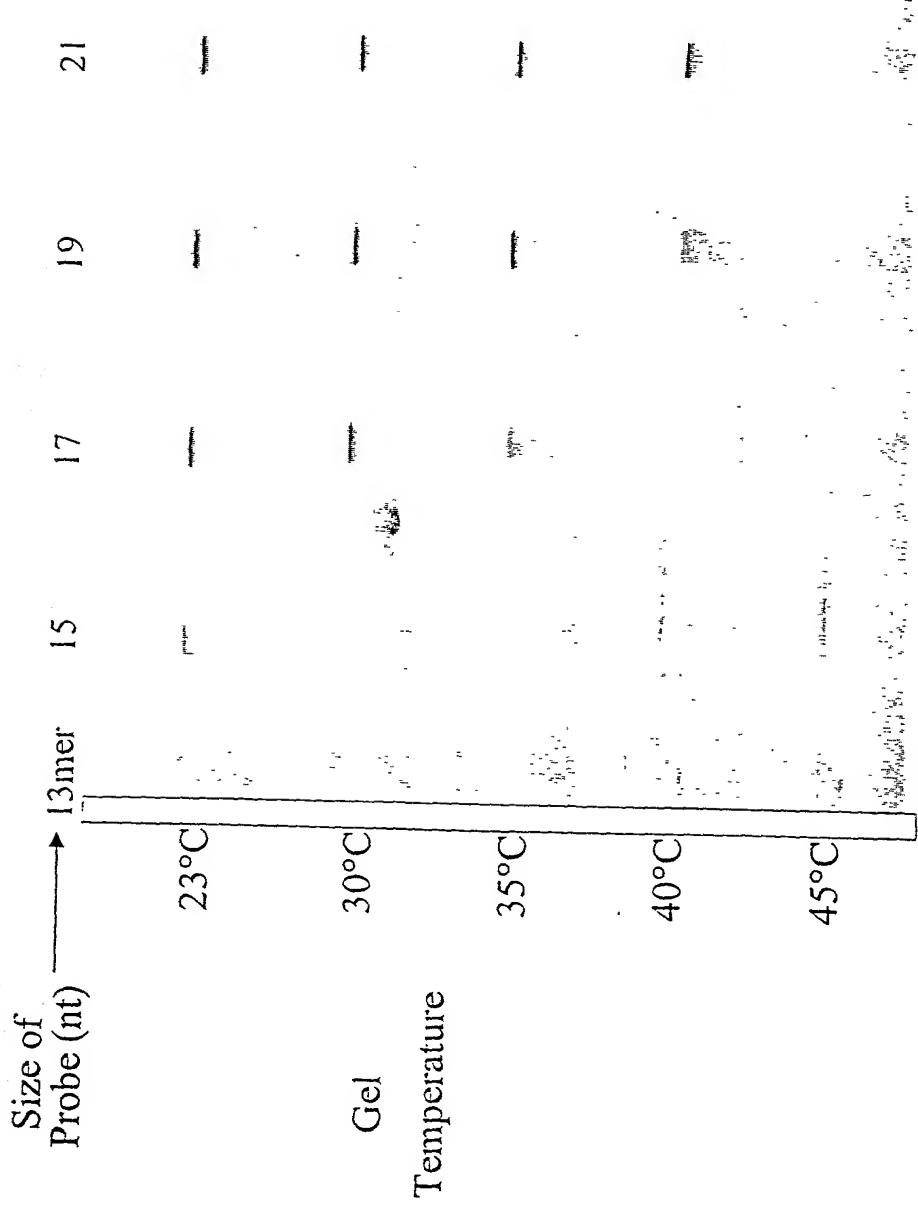


Fig. 7